

Grade 8 Mathematics Reference Sheet

Use the information below as needed to answer questions on the mathematics test.

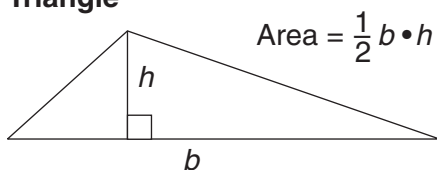
Standard Units

5280 feet = 1 mile
8 ounces = 1 cup
2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon
16 ounces = 1 pound
2000 pounds = 1 ton

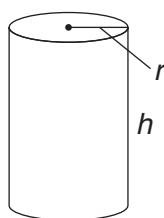
Metric Units

1000 millimeters = 1 meter
100 centimeters = 1 meter
1000 meters = 1 kilometer
1000 liters = 1 kiloliter
1000 grams = 1 kilogram

Triangle

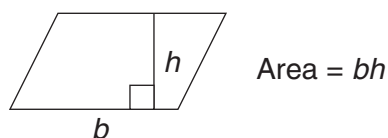


Cylinder

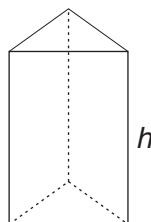


Volume = $\pi r^2 h$
Surface Area = $2\pi r^2 + 2\pi rh$

Parallelogram

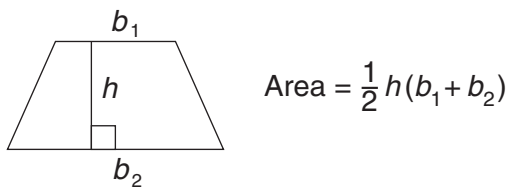


Prism

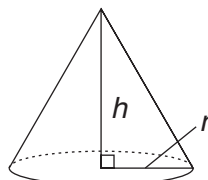


Volume = Bh
where B = area of base

Trapezoid

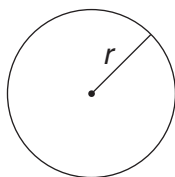


Cone



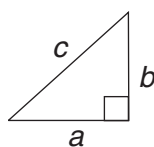
Volume = $\frac{1}{3} \pi r^2 h$

Circle



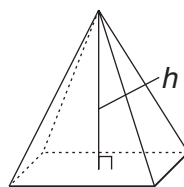
Area = πr^2
Circumference = $2\pi r$

Pythagorean Theorem



$a^2 + b^2 = c^2$

Pyramid



Volume = $\frac{1}{3} Bh$
where B = area of base